



**UHF Panel Antenna  
Elliptical / Circular**

**ELLIPTICAL/CIRCULAR POLARISED  
BROADBAND UHF PANEL ANTENNA**

The E90 & C90 broadband panels are ideal for broadband applications where either elliptically or circularly polarised propagation is required. This antenna is designed to produce an omnidirectional Horizontal Radiation Pattern (HRP) when four panels are mounted around a square structure with a face width of 640mm. With Individual inputs for horizontal and vertical field components, the user can choose levels of power in each polarisation plane to suit requirements. E90 & C90 models are engineered for digital/analog TV and mobile video broadcast.

Built with the highest quality materials the panel offers long lasting durability in all environmental conditions throughout the world. The E90 & C90 panel antenna is based on a modular design and can be configured to provide various azimuth and elevation patterns.

**DTV, ISDB-T, DVB-T/H, Analog, NTSC, PAL**

**UHF bands IV & V**

**Broadband multiple channel operation**

**Flexible panel placement for custom patterns**

**Optional mounting spine for top**

**Mount configuration**

**Durable and rugged construction**

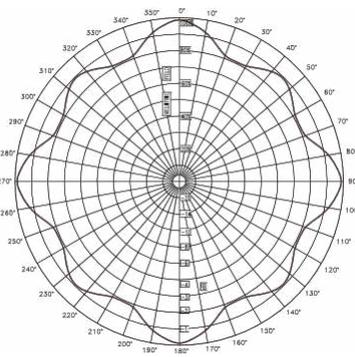
**Fiberglass radome protection**

**DC Grounded for lightning protection**

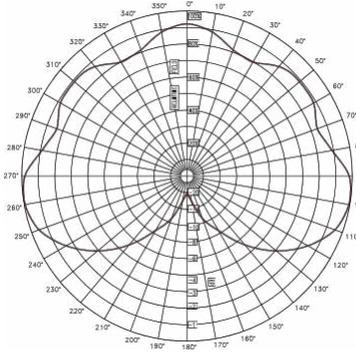


Typical Specification	
<b>Polarisation</b>	Elliptical (E90) Circular (C90)
<b>Frequency Range</b>	470 - 738MHz
<b>Impedance</b>	50 ohm
<b>VSWR</b>	1.1:1
<b>Absolute Gain</b>	
<b>Mid Band</b>	11.4dBd
<b>Isolation Between Inputs</b>	>30dB
<b>Max Power</b>	2.3kW Per Input
<b>Input Connector</b>	2 x 7/8"
<b>Dimensions (H x W x D)</b>	1070 x 500 x 233mm

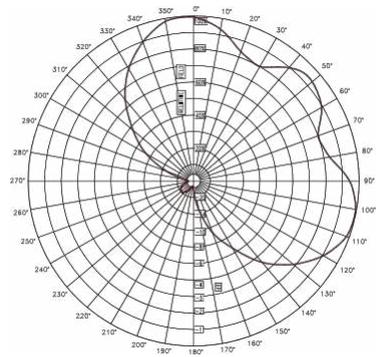
## Standard Azimuth Patterns, Total field Component



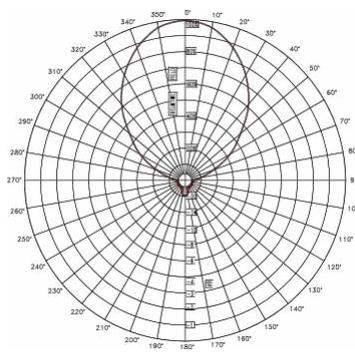
Omni



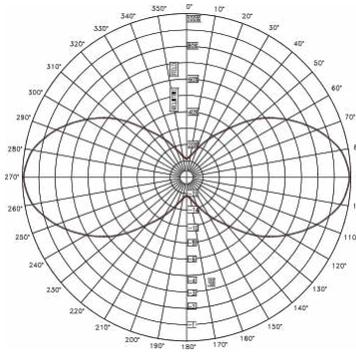
Wide Cardioid



Narrow Cardioid



Lobe



Peanut

*All inputs EIA flange, Male. In an omni-directional configuration, circularity is +/-2 dB (640mm or smaller). Input connection is EIA 50 ohm.*

*For assistance in pattern selection or design of a customised pattern, contact Alan Dick. Our Engineers and Sales Staff are highly trained in designing specialised systems, and are always willing to help.*

### NOTES

1. Weights and windloads contact office
2. All inputs EIA flange, male. 50 ohms
3. VSWR for individual panels and complete systems typical  $\leq 1.1:1$
4. Total number of frequencies limited only by total input power
5. Protective Radome included (Colour White/Orange)
8. Specifications are based on one wave spaced bays.

### OPTIONS

Pattern Measurement Service, Electrical Beam Tilt, Null Fill, Special Mounting Brackets.